

7700092

THE UNITED SHANES OF ANDERICAL

TO ALL TO WHOM THESE PRESENTS SHAW COME:

National Seed Development Organization LTD.

Talhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF ACCURACY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCEPTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT HEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. TED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS TERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPE.

E OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RYEGRASS

'Augusta'

In Esstimony Envercet, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of washington

this 2nd day of January in the year of our Lord one thousand nine

Allast

Sunantly Ville

Plant Variety Protection Office Grain Division

Agricultural Marketing Service

FORM APPROVED OMB NO. 40-R3712

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

16 TEMPORARY DEGIGNIATION OF	Ta		· · · · · · · · · · · · · · · · · · ·						
1a. TEMPORARY DESIGNATION OF VARIETY	16, VARIETY NAME		PV NUMBER 7700092						
VARIETY LAB 18	AUGUSTA								
2. KIND NAME	3. GENUS AND SPEC		FILING DATE	TIME A.M.					
HYBRID RYEGRASS	Lolium× hybridu	m Hausskn	17-25-77	3100					
			FEE RECEIVED	DATE					
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETER	MOITANIN	1 250,00	7-25-77					
GRAMINEAE	1973		\$ 250.00	7-25-77					
			\$ 250.00	11-19-79					
6. NAME OF APPLICANT(S)	7. ADDRESS (Street a	nd No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER					
NATIONAL SEED D Newton Hall Newton CAMBRIDGE Tel C	EVELOPMENT ORGANI	SATION LTD .							
9. IF THE NAMED APPLICANT IS NOT A P	FRSON, FORM OF	10. IE INCORPORAT	ED, GIVE STATE AND	11. DATE OF INCOR-					
ORGANIZATION: (Corporation, partnership		DATE OF INCOR		PORATION					
State sponsored		UNITED KINGDO	M. 1967	1967					
12. Name and mailing address of appli	icant representative(s	;), if any, to serve	in this application ar	nd receive all papers:					
13. CHECK BOX BELOW FOR EACH ATTA 13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem	eding History of the Va	ricty (See Section 52	? of the Plant Variety Pr	rotection Act.)					
13C. Exhibit C, Objective Description 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so	ription of the Variety (a scription of the Variety eed of this variety be so	old by variety name o	only as a <u>cla</u> ss of certifie						
13C. Exhibit C, Objective Description 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," answers.") 14B. Does the applicant(s) specify that the section 14B.	eed of this variety be so wer 14B and 14C below this variety be	old by variety name o	only as a class of certifie	d seed?					
13C. Exhibit C, Objective Description 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so	eed of this variety be so wer 14B and 14C below this variety be	old by variety name of the state of the stat	only as a class of certified Solutions of the Community generations generated generations of the Community generations generated generations generated generations generated genera	d seed? of production beyond					
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130. Exhibit C, Objective Description 130. Exhibit D, Additional Description 144. Does the applicant(s) specify that so (See Section 83(a), (If "Yes," answers 145. Does the applicant(s) specify that the limited as to number of generations	ription of the Variety (scription of the Variety eed of this variety be sower 14B and 14C below this variety be so Y YES NO [5] No [6] No [7] No [7] No [7] No [7] No [8]	old by variety name of the state of this variety wi	only as a class of certified NO now many generations of REGISTERED Idress in the Official Journal of Reposited upon recommendations of the Register of Register	of production beyond of production beyond of the latter dated. 116178 CERTIFIED Irnal? VES NO quest before issuance of					
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INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
 - 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
 - Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C.

 Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

BAB 18

AUGUSTA hybrid ryegrass tetraploid

EXHIBIT A

13 a

ORIGIN AND BREEDING HISTORY

- 1. Augusta is a hybrid of tetraploid Lolium multiflorum and
 L. perenne B 1152 (3) x Ba 7430 (25)
- 2. Phenotypic selection and progeny testing. 7 F₁ plants selected as the basis of the variety.
 The variety is maintained by storage of second generation Breeders seed.
- 3. No evidence of variants during reproduction
- 4. Quantitative evidence on stability to be submitted in 1977

Additions

Origin/Material

The final plants selected from crosses between the multiflorum and perenne at the tetraploid level were progeny tested over several generations. These plants were selected for annual dry matter, spring growth, plant form, heading date, persistency etc., etc. This selection represents plants which give uniformity for the above characters and related only to the original material in so far as they represent hybrid between the multiflorum and perenne type.

The variety has been tested over several generations and no plants of significant difference were observed. Stability has been tested over 3 harvest years from 2 generations of seed and did not differ statistically at the 1% level when compared in the same year and trial.

Application No. 7700092

bAB 18

AUGUSTA hybrid ryegrass tetraploid

EXHIBIT B

NOVELTY STATEMENT.

<u>Sabel</u> hybrid ryegrass tetraploid most closely resembles the submitted variety <u>AUGUSTA</u>.

Augusta exhibits the tetraploid hybrid characters shown by Sabel, and this serves to distinguish it from all other Lolium multiflorum and L. perenne varieties.

Augusta is clearly distinguished from Sabel by its heading date - Augusta heads 7 - 9 days later than Sabel.

7700092

U.S. DEPARTMENT OF AGRICULTURE Agricultural Marketing Service Grain Division

Objective Description of Cultivars RYEGRASS

(Lolium spp.)

1.	SPECIES:
4	l=L. multiflorum (annual or Italian: includes Westerwoldicum)
щ	2=L. perenne (perennial) 3=L. rigidum (includes Wimmera)
	4=Hybrid (of species) Legerenne *L. multiflorum 5=Other (specify)
2.	PLOIDY:
2	l=Diploid 2=Tetraploid 3= Other (specify)
3.	DURATION:
	- TO THE TOTAL OF
2	1=Annual or biennial 2=Short lived perennial (3-4 years)
	3=Perennial (more than 4 years)
	STANDARD CULTIVARS
-	L=Gulf 2=Wimmera 62 3=Linn 4=Pelo
	S=Norlea 6=Aberystwyth S-23 7=Manhattan 8=Pennfine
4.	MATURITY (50% Headed): (Use standard cultivars from above.)
3	1-Vory organ 3-Border 5 M. 1'
22	l=Very early 3=Early 5=Medium 7=Late 9=Very late Days earlier than 6 standard cultivar
	Days later than standard cultivar
5	MATURE PLANT HEIGHT: (Use standard cultivars from above.)
	cm. High cm. Shorter than standard cultivar
	cm. Taller than standard cultivar
6.	PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead):
	(Use standard cultivars from above.)
	Percent damage of application cultivar
	Percent damage of standard cultivar
7.	TURF DENSITY: (Use standard cultivars from above.)
	Tillers per 100 sq. cm.
	Less tillers per 100 sq. cm. than standard cultivar More tillers per 100 sq. cm. than standard cultivar
	More tillers per 100 sq. cm. than standard cultivar
8.	FLAG LEAF (at full growth): (Use standard cultivars from above.)
	cm. Length(from ligule to tip)
	cm. Shorter than standard cultivar
	cm. Longer than T standard cultivar
 	in width (at widest point)
 	mm. Narrower than standard cultivar
1!	mm. Wider than standard cultivar Flag leaf at boot stage: l=Deflexed 3=Recurved 5=Horizontal
	I Flag leaf at boot stage: l=Deflexed 3=Recurved 5=Horizontal 7=Semi-erect 9=Erect
9.	LEAVES:
	Vernation: l=Leaves rolled in young shoots
F	2=Leaves semi-rolled (folded with rolled edges)
r	3=Leaves folded in voung shoots
L	100 & Plants with anthocyanin in lower leaf sheath
10	2 Foliage color: 1=yellow green 2=medium green 3=blue green
10.	SPIKE:
	mm. Spike length (tip to internode below lowest floret)
	mm. Shorter than
	mm. Longer than (Use standard cultivars from above.)

ADDITIONAL DESCRIPTION OF THE VARIETY.

Data Indicative of Novelty

- 1. Augusta is a tetraploid hybrid ryegrass in the category which includes the varieties Sabrina and Sabel.

 No other established tetraploid hybrid ryegrasses are known as yet.
- 2. Augusta differs from both Sabrina and Sabel by having a mean ear emergence date about 6 days later than either of the former varieties.
- 3. Augusta has a flag leaf which at ear emergence is not quite as wide as that of Sabel and Sabrina and the difference is statistically significant at the 1% level.

Application No. 7700092



United States Department of Agriculture

January 21, 1998

Research, Education, and Economics Agricultural Research Service

Marian R. Minnifield Secretary Plant Variety Protection Office NAL Building, Room 500 10301 Baltimore Boulevard Beltsville, Maryland 20705-2351

Subj: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number	EXPIRED					
107423	01	7900099	01/02/1997					
107424	01	7800077	01/02/1997					
107425	01	7900062	01/02/1997					
107428	01	7900095	01/02/1997					
107429	01	7700092	01/02/1997					
108309	01	7900116	01/29/1997					
108310	01	7900117	01/29/1997					
108311	01	7900087	01/29/1997					
108312	01	7800080	01/29/1997					
108313	01	7800020	01/29/1997					
109381	01	7900 113	03/27/1997					
109382	01	7900030	03/27/1997					
109383	01	7900102	03/27/1997					
109384	01	7900063	03/11/1997					
109386	01	7300068	03/11/1997					
109387	01	7900120	02/26/1997					
109388	01	7700028	02/26/1997					
109389	01	7700112	02/26/1997					
109390	01	7900040	03/11/1997					
109791	01	7800071	02/26/1997					
110210	01	8000058	05/15/1997					
110211	01	7800103	05/01/1997					
110212	02	8000001	05/01/1997					
110213	01	7800001	05/01/1997					



	110214	02	7200105	04/24/0197					
	110215	01	8000022	04/24/1997					
	110216	01	7900060	05/01/1997					
	110217	01	7900084	05/01/1997		,		•	
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	110219	01	7900101	05/01/1997					
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	110221	01	8000015	05/15/1997					
	110222	01	7900111	05/15/1997					
	110223	01	7900110	05/15/1997					
	110227	01	79001.06	05/15/1997	 _				
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	110229	01	7900100	05/01/1997					
	110230	01	7900075	05/01/1997					
	110231	01	7900108	04/24/1997					
	110236	01	8000053	05/29/1997					
	110239	01	7900098	05/29/1997					
	110240	01	7900006	05/29/1997					
	110263	01	7900042	06/05/1997					
	110264	01	8000048	06/05/1997					
	110265	01	8000063	06/05/1997					
	110266	01	8000012	06/05/1997					
	110267	01	8000049	06/05/1997					
	110268	01	7800092	06/05/1997					
	112329	01	8000045	06/19/1997					
	112330	01	7900088	07/10/1997					
	112331	01	8000044	07/10/1997					
	112332	01	7800079	06/19/1997					
	112333	01	7900074	06/26/1997					
	112334	01	8000061	06/19/1997					
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	112336	01	7700017	07/10/1997					
	112337	01	7900105	06/26/1997			-		
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	112339	01	7900072 7900090	06/19/1997					
	112342	01	7900090	06/26/1997					
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	112346	01	7800099	07/31/1997					
	112347	01	8000040	07/31/1997					
	112348	01	8000039	07/31/1997					
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112356	01	8000062	07/31/1997
112357	01	8000102	07/31/1997
112360	01	8000023	07/31/1997
112361	01	7900078	07/31/1997
112362	01	8000093	07/31/1997
112363	01	8000020	07/31/1997
112364	01	7800019	07/31/1997
112365	01	7900079	07/31/1997
113482	01	8000118	09/11/1997
113483	01	8000114	09/11/1997
113484	01	8000119	09/11/1997
113485	01	8000113	09/11/1997
113486	01	8000086	09/11/1997
113487	01	7900070	09/11/1997
113488	01	8000033	09/11/1997
113489	01	8000034	09/11/1997
113490	01	7900022	09/11/1997
113491	01	8000090	09/11/1997
113492	01	8000105	09/11/1997
113493	01	7900056	09/11/1997
113494	01	7900057	09/11/1997
113495	01	8000096	09/11/1997
113498	01	8000099	09/11/1997
113499	02	7900082	09/11/1997
113500	01	7500083	09/11/1997
113501	01	8000013	09/11/1997
113502	01	7900083	09/11/1997
113503	01	7300090	09/11/1997
114293	01	8000130	10/16/1997
114597	01	7900104	10/16/1997
114598	01	8000077	10/16/1997
114599	01	8000111	10/16/1997
114600	01	8000011	10/16/1997
114601	01	8000134	10/16/1997
169608	01	8100103	07/15/1997

Sincerely

Engene D. Keys
Computer Assistant
Data Management

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